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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/038,545	10/24/2001	Katsumi Tomioka	P/1139-107	7121
32172	7590 06/15/2005		EXAMINER	
DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP 1177 AVENUE OF THE AMERICAS (6TH AVENUE) 41 ST FL. NEW YORK, NY 10036-2714			LEE, DAVID J	
			ART UNIT	PAPER NUMBER
			2633	
			DATE MAILED: 06/15/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/038,545	TOMIOKA				
Office Action Summary	Examiner	Art Unit				
	David Lee	2633				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period who are accordingly within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>23 December 2004</u> .						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-12 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 1-12 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 24 October 2001 is/are:  Applicant may not request that any objection to the ore Replacement drawing sheet(s) including the correction of the ore control of the original transfer of the second or declaration is objected to by the Examine 11).	a) $\square$ accepted or b) $\square$ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa					
Paper No(s)/Mail Date 6) Other:						

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-12 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Tochio (US Patent No. 6,563,613).

Regarding claim 1, Tochio teaches an optical subscriber system comprising: station equipment (fig. 2, 11); a plurality of subscriber units (fig. 2, 12<sub>1</sub> to 12<sub>n</sub>); a transmission line for transmitting trailing signals from the station equipment to the plurality of subscriber units and transmitting leading signals from the plurality of subscriber units to the station equipment (fig. 2, 13); and a star coupler for branching trailing signals and combing the leading signals (fig. 2, 13a),

the station equipment comprising a transmission line distance monitor/processor unit (fig. 2, 11b, 23) which sends a distance measuring control signal to each of the subscriber units, measures, based on a distance measuring signal returned from each of the subscriber units, the transmission line distance between the station equipment and each of the subscriber units (fig. 2, 11a, and col. 5, lines 50-60), and judges whether the transmission line distance is larger or smaller than a reference value. In column 7, lines 1-3, Tochio discloses that the station equipment decides (judges) and gives notice of the transmission timing of the uplink main signal of each subscriber unit.

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For this judgment to occur, it is necessary and inherent that a reference value must be given as a basis to compare, judge, and give notice of the transmission timing.

It is known that the transmission line distance to the subscriber unit can be calculated from the transmission speed of the delay-measurement optical signal and the delay time (see Tochio, col. 6, lines 64-67).

Regarding claim 2, Tochio teaches the station equipment further comprising a trailing signal multiplexer (fig. 2, 26 and col. 6, lines 8-11) and a leading signal separator (fig. 2, 26 and col. 6, lines 12-15) and functions to multiplex the distance measuring equipment signal, generated in the transmission line distance monitor/processor unit, in the trailing signal multiplexer to prepare a trailing signal, which is then sent to each of the subscriber unit, (col. 6, lines 8-11) and to separate, from a leading signal returned from each of the subscriber units, a distance measuring signal, in the leading signal separator (col. 6, lines 12-15), which is then sent to the transmission line distance monitor/processor unit (col. 6, line 14-15).

Regarding claim 3, Tochio teaches the optical subscriber system according to claim 2, wherein

the transmission line distance monitor/processor unit comprises a distance measuring control signal generator (fig. 5, 23a and col. 8, lines 27-30), a distance measuring section (fig. 2, 23 and col. 5, lines 58-60), and a distance judgment section (fig. 2, 11b, and col. 7, lines 1-3), and

the distance measuring control signal generated in the distance measuring control signal generator is multiplexed in the trailing signal multiplexer to prepare a

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trailing signal (fig. 2, 26 and col. 6, lines 8-11), which is then sent to each of the subscriber units, and a distance measuring signal is separated from a leading signal, returned from each of the subscriber units, in the leading signal separator to prepare a distance measuring signal (fig. 2, 26, and col. 6, lines 12-15) that is then input into the distance measuring section (col. 6, line 14-15) which sends a distance signal to the distance judgment section for judging whether the transmission line distance is larger or smaller than a reference value (col. 7, lines 1-3).

Regarding claim 5, Tochio teaches a method for monitoring the transmission line distance between station equipment and each of a plurality of subscriber units in an optical subscriber system comprising: station equipment (fig. 2, 11); a plurality of subscriber units (fig. 2, 12<sub>1</sub> to 12<sub>n</sub>); a transmission line for transmitting trailing signal from the station equipment to the plurality of subscriber units and transmitting leading signals from the plurality of subscriber units to the station equipment (fig. 2, 13); and a star coupler for branching trailing signals and combining the leading signals (fig. 2, 13a), said method comprising the steps of:

sending a distance measuring control signal from the station equipment to each of the subscriber units (col. 5, lines 58-66);

measuring the transmission line distance based on a distance measuring signal returned from each of the subscriber units (col. 5, lines 66-67 to col. 6, lines 1-4); and

judging whether the transmission line distance is larger or smaller than a reference value (col. 7, lines 1-3).

Regarding claim 6, Tochio teaches the method according to claim 5, wherein

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the station equipment comprises: a transmission line distance monitor/processor unit comprising a distance measuring control signal generator (fig. 5, 23a and col. 8, lines 27-30), a distance measuring section (fig. 2, 23 and col. 5, lines 58-60), and a distance judgment section (fig. 2, 11b, and col. 7, lines 1-3); a trailing signal multiplexer (fig. 2, 26 and col. 6, lines 8-11); and a leading signal separator (fig. 2, 26, and col. 6, lines 12-15), and

a distance measuring control signal generated in the distance measuring control signal generator (fig. 2, 26 and col. 6, lines 8-11) is multiplexed in the trailing signal multiplexer to prepare a trailing signal which is then sent to each of the subscriber units (fig. 2, 26 and col. 6, lines 8-11).

Regarding claim 7, Tochio teaches the method according to claim 6, wherein a distance measuring signal is separated from a leading signal, returned from each of the subscriber units, in the leading signal separator to prepare a distance measuring signal that is then input into the distance measuring section (col. 6, lines 13-15), which sends a distance signal to the distance judgment section for judging whether the transmission line distance is larger or smaller than a reference value (col. 7, lines 1-3).

Regarding claims 4, 9 and 10, Tochio discloses in column 7, lines 1-3, the optical subscriber system which, when the transmission line distance is larger than the reference value, issues an alarm ("gives notice of" – col. 7, line 2).

Regarding claims 8, 11 and 12, Tochio discloses in column 7, lines 1-3, the optical subscriber system which, when the transmission line distance is larger than the reference value, issues an alarm ("gives notice of" – col. 7, line 2).

## Response to Arguments

3. Applicant's arguments filed on 12/23/2004 have been fully considered but they are not persuasive.

Regarding Applicant's assertion that "it is not necessary and inherent that Tochio uses a reference value in its decision", Examiner disagrees. In the scenario presented by the applicant:

"For example, as Tochio is trying to avoid collisions between messages from subscriber stations, Tochio could base its decision on a comparison between transmission times among the various subscriber stations, and not in comparison to a reference value."

The "transmission times among the various subscriber stations" would be considered the reference value upon which a decision is made in the station. The basis of any systematic, information-based nonrandom judgment relies upon some type of reference value, whether it be fixed or variable, or whether it stems from a qualitative or a quantitative assessment, etc. In light of Tochio's system, the station makes a nonrandom information-based judgment according to some reference value and gives notice of the transmission timing of the uplink main signal of each subscriber unit with respect to the information. Tochio does not expressly disclose a "reference value" but it

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is inherent that the judgment is information based, that it is nonrandom, and that measurements are needed to reach a decision. These measurements/information can be considered a "reference value" in that the judgment that is made is based on the "value" of the measurement. In Tochio's system, the station makes a judgment based of the delay time measurement (col. 6, line 67 to col. 7, line 3), which can be considered a "reference value." Or, according to Applicant's scenario, the transmission times among the various subscriber stations can be considered a reference value upon which the decision is based. Examiner has provided a basis in fact to reasonably support the determination that the inherency flows from the teaching of Tochio.

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Lee whose telephone number is (571) 272-2220. The examiner can normally be reached on Monday - Friday, 9:00 am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571) 272-3022. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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